AMENDMENTS TO THE CLAIMS

1. (withdrawn—currently amended): A method of enhancing an immune response in a subject to an antigen, the method comprising administering to a subject ~~an antigen and an effective amount of a tryptanthrin compound, or a pharmaceutically acceptable salt thereof, to enhance the immune response to said antigen~~

an immunogenic pharmaceutical composition comprising the antigen and a tryptanthrin compound adjuvant in an amount effect to provide an enhanced immune response to the antigen relative to the response provided without the tryptanthrin compound adjuvant.

2. (withdrawn): The method of claim 1, wherein the antigen is derived from a bacterial, parasitic, viral, or fungal pathogen.

3. (withdrawn—currently amended): The method of claim 2 wherein the bacterial pathogen is selected from the group consisting of diphtheria, staphylococcus, cholera, tuberculosis, tetanus, streptococcus pneumoniae, ~~streptoccus~~ streptococcus agalacitiae, streptococcus pyogenes, pertussis, Neisseria meningitis, Neisseria gonorrheae, chlamydia, Helicobacter pylori, and Hemophilius influenza type B.

4. (withdrawn): The method of claim 2 wherein the viral pathogen is selected from the group consisting of viral meningitis, rhinovirus, influenza, respiratory syncytial virus, parainfluenza virus, rotavirus, tick borne encephalitis virus, coronaviridae, rhabodoviridiae, VZV, EBV, CMV, HIV, HPV, HSV, HAV, HBV, HCV, and SARS.

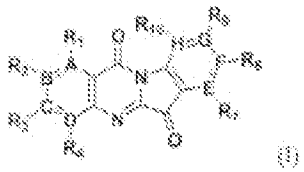
5. (withdrawn): The method of claim 2 wherein the parasitic pathogen is selected from the group consisting of Plasmodium falciparum, Plasmodium ovate, Plasmodium malariae, and P. vivax.

6. (withdrawn): The method of claim 2, wherein the antigen is associated with a disease selected from the group consisting of BCG, cholera, plague, typhoid, hepatitis B infection,

influenza, inactivated polio, rabies, measles, mumps, rubella, oral polio, yellow fever, tetanus, diphtheria, hemophilus influenzae b, meningococcus infection, tick borne encephalitis, SARS, HCV, HIV, and pneumococcus infection.

7. (withdrawn): The method of claim 1 wherein the immune response is the cellular production of one or more cytokines.

8. (withdrawn): The method of claim 1 wherein the tryptanthrin compound is a compound of Formula (I):



(I)

wherein

A, B, C, D, E, F, G, and H are independently selected from carbon and nitrogen, or A and B and/or C and D can he taken together to be nitrogen or sulfur; R_1, R_2, R_3, R_4, R_8, and R_{10} are independently selected from the group consisting of hydrogen, halogen, loweralkyl, alkyl, substituted alkyl, cycloalkyl, heterocyclyl, alkylheterocyclyl, substituted heterocyclyl, substituted alkenyl, amino, (substituted alkyl)(alkyl)amino, imino, halologweralkyl, hydroxy, alkoxy, substituted alkoxy, hydroxyalkylthio, nitro, alkylsulfonyl, N-alkylsulfonamide, arylalkyl, arylalkylaryl, arylaryl, aryloxy, arylamino, acylamino, acyloxyamino, alkylaminoacylamino, alkylaminosulfonylamino, alkylamino, alkenylamino, dialkylamino, alkoxyalkylamino, alkoxyalkylheterocyclyl, mercaptoalkoxyalkyl, cyano, formyl, -$COOR_{11}$ wherein R_{11} is hydrogen, loweralkyl, aryl, heterocyclyl, monosaccharide or disaccharide, and -$CONR_{12}R_{13}$ wherein R_{12} and R_{13} are independently selected from hydrogen, loweralkyl, aryl, heterocyclyl, saccharide, peptide and amino acid residues; or R_2 and R_3 taken together form a six membered aromatic ring;

R_7 and R_9 are independently selected from hydrogen, halogen, loweralkyl, halologweralkyl, cycloalkyl, heterocyclyl, substituted heterocyclyl or heterocyclylalkyl; and

R_1, R_2, R_3, R_4, R_7, R_8, R_9, and R_{10} are absent when the ring atom to which they would otherwise be bonded is sulfur or double-bonded nitrogen; or

a pharmaceutically acceptable salt,

provided that R_1, R_2, R_3, R_4, R_7, R_8, R_9, and R_{10} are not all hydrogen when A, B, C, D, E, F, and H are carbon.

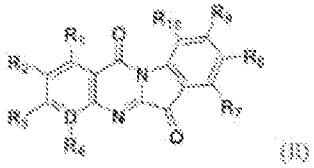
9. (withdrawn): The method of claim 8,

wherein

A, B, C, D, E, F, G, and H are independently selected from carbon and nitrogen;

R_1, R_2, R_3, R_4, R_8 and R_{10} are independently selected from the group consisting of hydrogen, halogen, loweralkyl, alkyl, substituted alkyl, heterocyclyl, substituted heterocyclyl, substituted alkenyl, (substituted alkyl)(alkyl)amino, halologweralkyl, hydroxy, alkoxy, substituted alkoxy, hydroxyalkylthio, nitro, N-alkylsulfonamide, cyano, -$COOR_{11}$ wherein R_{11} is hydrogen, loweralkyl, aryl, heterocyclyl, monosaccharide or disaccharide, and -$CONR_{12}R_{13}$ wherein R_{12} and R_{13} are independently selected from hydrogen, loweralkyl, aryl, heterocyclyl, saccharide, peptide and amino acid residues.

10. (withdrawn): The method of claim 1 wherein the tryptanthrin compound is a compound of Formula (II):



(II)

wherein

D is carbon or nitrogen, and R_4 is absent when D is N;

R_1 is hydrogen, halogen, or loweralkyl;

R_2 is hydrogen or halogen;

R_3 is hydrogen, halogen, heterocyclyl, substituted heterocyclyl, (substituted alkyl)(alkyl)amino, or hydroxyalkylthio;

R_4 is hydrogen, halogen, alkoxy, substituted alkoxy, or hydroxy;

R_7 is hydrogen or halologweralkyl;

R_8 is hydrogen, halogen, substituted alkoxy, halololoweralkyl, nitro, N-alkylsulfonamide, substituted alkenyl, substituted alkyl, $COOR_{11}$ wherein R_{11} is loweralkyl, or $-CONR_{12}R_{13}$ wherein R_{12} and R_{13} are independently hydrogen or loweralkyl;

R_9 is hydrogen; and

R_{10} is hydrogen, halogen, or loweralkyl;

or a pharmaceutically acceptable salt thereof.

11. (withdrawn): The method of claim 1, wherein the tryptanthrin compound is selected from the group consisting of:

8-nitroindolo[2,1-b]quinazoline-6,12-dione,

3,8-difluoroindolo[2,1-b]quinazoline-6,12-dione,

10-fluoroindolo[2,1-b]quinazoline-6,12-dione,

1,8-difluoroindolo[2,1-b]quinazoline-6,12-dione,

8-fluoro-l-methylindolo[2,1-b]quinazoline-6,12-dione,

8,10-difluoroindolo[2,1-b]quinazoline-6,12-dione,

2,4-dibromo-l-fluoro-8-iodoindolo[2,1-b]quinazoline-6,12-dione,

2,4-dibromo-1-chloro-8-iodoindolo- [2,1-b]quinazoline-6,12-dionc,

2,4-dibromo-l-fluoroindolo[2,1-b]quinazoline-6,12-dione,

8-chloro-2-iodoindolo[2,1-b]quinazoline-6,12-dione,

8-chloro-3-fluoroindolo[2,1-b]quinazoline-6,12-dione,

8-fluoro-4-hydroxyindolo[2,1-b]quinazoline-6,12-dione,

N-ethyl-4-(methyloxy)-6,12-dioxo-6,12-dihydroindolo[2,1-b]quinazoline-8-carboxamide,

3-fluoro-8-[(trifluoromethyl)oxy]indolo[2,1-b]quinazoline-6,12-dione,

3-[(2-hydroxyethyl)thio]-8-[(trifluoromethyl)oxy]indolo[2,1-b]quinazoline-6,12-dione,

pyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-fluoropyrido[2',3':4,5]pyrimido[1,2-a] indole-5,11-dione,

9-bromopyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-chloropyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-iodopyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

ethyl 5,11-dioxo-5,11-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indole-9-carboxylate,

N-octyl-5,11-dioxo-5,11-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indole-9-sulfonamide,

10-(trifluoromethyl)pyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

(5E)-6-(5,11-dioxo-5,11 dihydropyrido[2',3':4,5]pyrimido[1,2-a]indol-9-yl)hex-5-enyl acetate,

6-(5,11-dioxo-5,11-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indol-9-yl)hexyl dihydrogen phosphate, and

9-[(trifluoromethyl)oxy]pyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

or a pharmaceutically acceptable salt thereof.

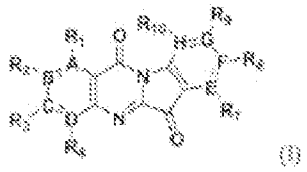
12. (currently amended): An immunogenic pharmaceutical composition ~~for enhancing an immune response in a subject to an antigen,~~ comprising ~~the antigen~~ an antigen and ~~an effective amount of~~ a tryptanthrin compound adjuvant~~, said tryptanthrin compound adjuvant providing~~ in an amount effective to provide an enhanced immune response to the antigen [[than]] relative to the response provided without the tryptanthrin compound adjuvant~~, and wherein said antigen is not BCG~~.

13. (original): The composition of claim 12, further comprising an aqueous carrier.

14. (previously presented): The composition of claim 12, wherein the antigen is associated with a disease selected from the group consisting of cholera, plague, typhoid, hepatitis B infection, influenza, inactivated polio, rabies, measles, mumps, rubella, oral polio, yellow fever, tetanus, diphtheria, hemophilus influenzae b, meningococcus infection, tick borne encephalitis, SARS, HCV, HIV, and pneumococcus infection.

15. (previously presented): The composition of claim 12, wherein the tryptanthrin compound enhances an immune response to the antigen and the immune response is the cellular production of one or more cytokines.

16. (original): The composition of claim 12, wherein the tryptanthrin compound is a compound of Formula I:



(I)

wherein

A, B, C, D, E, F, G, and H are independently selected from carbon and nitrogen, or A and B and/or C and D can be taken together to be nitrogen or sulfur;

R_1, R_2, R_3, R_4, R_8, and R_{10} are independently selected from the group consisting of hydrogen, halogen, loweralkyl, alkyl, substituted alkyl, cycloalkyl, heterocyclyl, alkylheterocyclyl, substituted heterocyclyl, substituted alkenyl, amino, (substituted alkyl)(alkyl)amino, imino, haloloweralkyl, hydroxy, alkoxy, substituted alkoxy, hydroxyalkylthio, nitro, alkylsulfonyl, N-alkylsulfonamide, arylalkyl, arylalkylaryl, arylaryl, aryloxy, arylamino, acylamino, acyloxyamino, alkylaminoacylamino, alkylaminosulfonylamino, alkylamino, alkenylamino, dialkylamino, alkoxyalkylamino, alkoxyalkylheterocyclyl, mercaptoalkoxyalkyl, cyano, formyl, $-COOR_{11}$ wherein R_{11} is hydrogen, loweralkyl, aryl, heterocyclyl, monosaccharide or disaccharide, and $-CONR_{12}R_{13}$ wherein R_{12} and R_{13} are independently selected from hydrogen, loweralkyl, aryl, heterocyclyl, saccharide, peptide and amino acid residues; or R_2 and R_3 taken together form a six membered aromatic ring;

R_7 and R_9 are independently selected from hydrogen, halogen, loweralkyl, haloloweralkyl, cycloalkyl, heterocyclyl, substituted heterocyclyl or heterocyclylalkyl; and

R_1, R_2, R_3, R_4, R_7, R_8, R_9, and R_{10} are absent when the ring atom to which they would otherwise be bonded is sulfur or double-bonded nitrogen; or

a pharmaceutically acceptable salt thereof,

provided that R_1, R_2, R_3, R_4, R_7, R_8, R_9, and R_{10} are not all hydrogen when A, B, C, D, E, F, and H are carbon.

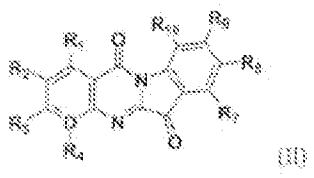
17. (original): The composition of claim 16,

wherein

A, B, C, D, E, F, G, and H are independently selected from carbon and nitrogen;

R_1, R_2, R_3, R_4, R_8 and R_{10} are independently selected from the group consisting of hydrogen, halogen, loweralkyl, alkyl, substituted alkyl, heterocyclyl, substituted heterocyclyl, substituted alkenyl, (substituted alkyl)(alkyl)amino, halololoweralkyl, hydroxy, alkoxy, substituted alkoxy, hydroxyalkylthio, nitro, N-alkylsulfonamide, cyano, -$COOR_{11}$ wherein R_{11} is hydrogen, loweralkyl, aryl, heterocyclyl, monosaccharide or disaccharide, and -$CONR_{12}R_{13}$ wherein R_{12} and R_{13} are independently selected from hydrogen, loweralkyl, aryl, heterocyclyl, saccharide, peptide and amino acid residues.

18. (withdrawn): The composition of claim 12, wherein the tryptanthrin compound is a compound of Formula II:



(II)

wherein

D is carbon or nitrogen, and R_4 is absent when D is N;

R_1 is hydrogen, halogen, or loweralkyl;

R_2 is hydrogen or halogen;

R_3 is hydrogen, halogen, heterocyclyl, substituted heterocyclyl, (substituted alkyl)(alkyl)amino, or hydroxyalkylthio;

R_4 is hydrogen, halogen, alkoxy, substituted alkoxy, or hydroxy;

R_7 is hydrogen or halololoweralkyl;

R_8 is hydrogen, halogen, substituted alkoxy, halololoweralkyl, nitro, N-alkylsulfonamide, substituted alkenyl, substituted alkyl, $COOR_{11}$ wherein R_{11} is loweralkyl, or -$CONR_{12}R_{13}$ wherein R_{12} and R_{13} are independently hydrogen or loweralkyl;

R_9 is hydrogen; and

R_{10} is hydrogen, halogen, or loweralkyl;

or a pharmaceutically acceptable salt thereof.

19. (original): The composition of claim 12, wherein the tryptanthrin compound is selected from the group consisting of

8-nitroindolo[2,1-b]quinazoline-6,l-2-dione,

3,8-difluoroindolo[2,1-b]quinazoline-6,12-dione,

10-fluoroindolo[2,1-b]quinazoline-6,12-dione,

1,8-difluoroindolo[2,1-b]quinazoline-6,12-dione,

8-fluoro-l-methylindolo[2,1-b]quinazoline-6,12-dione,

8,10-difluoroindolo[2,1-b]quinazoline-6,12-dione,

2,4-dibromo-l-fluoro-8-iodoindolo[2,1-b]quinazoline-6,12-dione,

2,4-dibromo-1-chloro-8-iodoindolo[2,1-b]quinazoline-6,12-dione,

2,4-dibromo-1-fluoroindolo[2,1-b]quinazoline-6,12-dione,

8-chloro-2-iodoindolo[2,1-b]quinazoline-6,12-dione,

8-chloro-3-fluoroindolo[2,1-b]quinazoline-6,12-dione,

8-fluoro-4-hydroxyindolo[2,1-b]quinazoline-6,12-dione,

N-ethyl-4-(methyloxy)-6,12-dioxo-6,12-dihydroindolo[2,1-b]quinazoline-8-carboxamide,

3-fluoro-8-[(trifluoromethyl)oxy]indolo[2,1-b]quinazoline-6, 12-dione,

3-[(2-hydroxyethyl)thio]-8-[(tri fluoromethyl)oxy]indolo[2,1-b]quinazoline-6,12-dione,

pyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-fluoropyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-bromopyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-chloropyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-iodopyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

ethyl 5,11-dioxo-5,11-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indole-9-carboxylate,

N-octyl-5,11-dioxo-5,11-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indole-9-sulfonamide,

10-(trifluoromethyl)pyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

(5E)-6-(5,11-dioxo-5,11-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indol-9-yl)hex-5-enyl acetate,

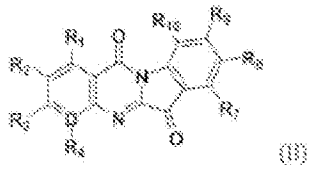
6-(5,11-dioxo-5,11-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indol-9-yl)hexyl dihydrogen phosphate, and

9-[(trifluoromethyl)oxy]pyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

or a pharmaceutically acceptable salt thereof.

20. (withdrawn): A method of immunotherapy for the treatment of cancer, the method comprising administering to a subject an immunostimulatory effective amount of a tryptanthrin derivative.

21. (withdrawn): The method of claim 20, wherein the tryptanthrin derivative is a compound of Formula II:



(II)

wherein

D is carbon or nitrogen, and R_4 is absent when D is N;

R_1 is hydrogen, halogen, or loweralkyl;

R_2 is hydrogen or halogen;

R_3 is hydrogen, halogen, heterocyclyl, substituted heterocyclyl, (substituted alkyl)(alkyl)amino, or hydroxyalkylthio;

R_4 is hydrogen, halogen, alkoxy, substituted alkoxy, or hydroxy;

R_7 is hydrogen or haloloweralkyl;

R_8 is hydrogen, halogen, substituted alkoxy, haloloweralkyl, nitro, N-alkylsulfonamide, substituted alkenyl, substituted alkyl, $COOR_{11}$, wherein R_{11} is loweralkyl, or $-CONR_{12}R_{13}$ wherein R_{12} and R_{13} are independently hydrogen or loweralkyl;

R_9 is hydrogen; and

R_{10} is hydrogen, halogen, or loweralkyl;

or a pharmaceutically acceptable salt thereof.

22. (withdrawn): The method of claim 20, wherein the tryptanthrin derivative is selected from the group consisting of

8-nitroindolo[2,1-b]quinazoline-6,12-dione,

3,8-difluoroindolo[2,1-b]quinazoline-6,12-dione,

10-fluoroindolo[2,1-b]quinazoline-6,12-dione,

1,8-difluoroindolo[2,1-b]quinazoline-6,12-dione,

8-fluoro-l-methylindolo[2,1-b]quinazoline-6,12-dione,

8,10-difluoroindolo[2,1-b]quinazoline-6,12-dione,

2,4-dibromo-l-fluoro-8-iodoindolo[2,l-b]quinazoline-6,12-dione,

2,4-dibromo-l-chloro-8-iodoindolo[2,1-b]quinazoline-6,12-dione,

2,4-dibromo-1-fluoroindolo[2,1-b]quinazoline-6,12-dione,

8-chloro-2-iodoindolo[2,1-b]quinazoline-6,12-dione,

8-chloro-3-fluoroindolo[2,1-b]quinazoline-6,12-dione,

8-fluoro-4-hydroxyindolo[2,1-b]quinazoline-6,12-dione,

N-ethyl-4-(methyloxy)-6,12-dioxo-6,12-dihydroindolo[2,1-b]quinazoline-8-carboxamide,

3-fluoro-8-[(trifluoromethyl)oxy]indolo[2, 1-b]quinazoline-6,12-dione,

3-[(2-hydroxycthyl)thio]-8-[(trifluoromethyl)oxy]indolo[2,1-b]quinazoline-6,12-dione,

pyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-fluoropyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-bromopyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-chloropyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

9-iodopyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

ethyl 5,11-dioxo-511-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indole-9-carboxylate,

N-octyl-5,11-dioxo-5,11-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indole-9-sulfonamide,

10-(trifluoromethyl)pyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

(5E)-6-(5,11-dioxo-5,11-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indol-9-yl)hex-5-enyl acetate,

6-(5,11-dioxo-5,11-dihydropyrido[2',3':4,5]pyrimido[1,2-a]indol-9-yl)hexyl dihydrogen phosphate, and

9-[(trifluoromethyl)oxy]pyrido[2',3':4,5]pyrimido[1,2-a]indole-5,11-dione,

or a pharmaceutically acceptable salt thereof.

23.-31. (canceled)